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## Hericium caput-medusae (Bull.:Fr.) Pers. polysaccharide enhance innate immune 2 response, immune-related genes expression and disease resistance against Aeromonas 3 hydrophila in grass carp (Ctenopharyngodon idella) 4 5 Changlong Gou<sup>a</sup>, Jiazhen Wang<sup>a</sup>, Yuqiong Wang<sup>b, c</sup>, Wenlong Dong<sup>a</sup>, Xiaofeng Shan<sup>a</sup>, 6 Yujie Lou<sup>a</sup>, Yunhang Gao<sup>a\*</sup> 7 8 <sup>a</sup>College of Animal Science and Technology, Jilin Agricultural University, Changchun, Jilin 9 10 130118, China <sup>b</sup>Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences, 11 Changchun, Jilin 130102, China 12 <sup>c</sup>University of Chinese Academy of Sciences, Beijing 100049, China 13 14 \*Corresponding author: 15 E-mail: gaoyunhang@163.com (Yunhang Gao) 16 17

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